

SAFETY DATA SHEET

1. Identification

Product identifier	MI-GLOW [®]	920		
Other means of identification	Not available.			
Recommended use	Non-destructive	testing.		
Recommended restrictions	None known.			
Manufacturer / Importer / Suppli	er / Distributor	information		
Company name	Circle Systems,	Inc.		
Address	1210 Osborne Road			
	St. Marys, GA 3	1558		
Telephone	912-729-2735			
E-mail	customerservice@circlesafe.com			
Emergency phone number	Chem-Tel	800-255-3924 (US & Canada); +1-813-248-0585 (International)		

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Combustible dust.
Label elements	
Hazard symbol	None.
Signal word	Warning
Hazard statement	May form combustible dust concentrations in air.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Prevent dust accumulation to minimize explosion hazard.
Response	Remove and wash contaminated clothing before re-use. In case of fire: Use appropriate media for extinction.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Not classified.
Supplemental information	Not applicable.

3. Composition/information on ingredients

Mixtures			
Chemical name		CAS number	%
Iron		7439-89-6	< 95
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	ns develop or persist.	
Skin contact	Wash off with soap and water. Get medical a	ttention if irritation develops ar	nd persists.
Eye contact	Do not rub eyes. Rinse with water. Get medic	cal attention if irritation develop	os and persists.
Ingestion	Rinse mouth. Get medical attention if sympto	ms occur.	

Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.
	Small Spills: Collect dust using a vacuum cleaner equipped with HEPA filter.
	Large Spills: Sweep or shovel up material and place in a clearly labeled container for waste. Following product recovery, flush area with water.
Methods and materials for containment and cleaning up	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
6. Accidental release mea	
General fire hazards	Heat may cause the containers to explode. May form combustible dust concentrations in air.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Specific hazards arising from the chemical	Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust.
5. Fire-fighting measures	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
symptoms/effects, acute and delayed	Dust may cause eye, skin and respiratory tract irritation.

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	No exposure standards allocated.
Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable,

use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles).			
Skin protection			
Hand protection	For prolonged or repeated skin contact, use suitable protective gloves.		
Other	Wear suitable protective clothing.		
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Powder.
Color	Green
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not relevant.
Evaporation rate	Not relevant.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit – lower (%)	Not relevant.
Flammability limit – upper (%)	Not relevant.
Explosive limit – lower (%)	Not available. Not
Explosive limit – upper (%)	available. Not
Vapor pressure	relevant.
Vapor density	Not relevant.
Specific gravity	1.2 (68 °F (20 °C))
Solubility(ies)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not relevant.
Auto-ignition temperature	Not relevant.
Decomposition temperature	Not available.
Viscosity	Not relevant.
Other information	
VOC (Weight %)	Not applicable.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

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Conditions to avoid	Keep away from heat, sparks and open flame. Minim	ize dust generation and accumulation.
	Contact with incompatible materials.	
Incompatible materials	Strong oxidizing agents.	
Hazardous decomposition	No hazardous decomposition products are known.	
products		
11. Toxicological information)n	
Information on likely routes of e	xposure	
Ingestion	Expected to be a low ingestion hazard.	
Inhalation	Inhalation of dusts may cause respiratory irritation.	
Skin contact	Dust or powder may irritate the skin.	
Eye contact	Dust may irritate the eyes.	
Symptoms related to the	Dust may cause eye, skin and respiratory tract irritati	ion.
physical, chemical and		
toxicological characteristics Information on toxicological effe	acts	
Acute toxicity	Expected to be a low hazard for usual industrial or co	ommercial handling by trained personnel.
-		
Components Iron (CAS 7439-89-6)	Species	Test Results
Oral		
LD50	Rat	30 g/kg
ED50	Rat	SU gikg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation	on.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation	ion.
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitizat	tion.
Germ cell mutagenicity	No data available to indicate product or any compon	ents present at greater than 0.1%
	are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by	
Reproductive toxicity	This product is not expected to cause reproductive of	r developmental effects.
Specific target organ toxicity – single exposure	Not classified.	
Specific target organ toxicity – repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological information		
Ecotoxicity	The product is not classified as environmentally haza possibility that large or frequent spills can have a har	
Persistence and degradability	No data is available on the degradability of this produ	
Bioaccumulative potential	No data available for this product.	
Mobility in soil	Not available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone or potential, endocrine disruption, global warming poten	
13. Disposal considerations	· · · · · · · · · · · · · · · · · · ·	
		t licensed waste dispessel site. Dispess
Disposal instructions	Collect and reclaim or dispose in sealed containers a of contents/container in accordance with local/region	
Waste from residues / unused products	Dispose of in accordance with local regulations. Emp product residues. This material and its container mus Disposal instructions).	oty containers or liners may retain some

14. Transport information	on				
DOT					
Not regulated as danger	ous goods.				
ΙΑΤΑ					
Not regulated as danger	ous goods.				
IMDG					
Not regulated as danger	ous goods.				
Transport in bulk according Annex II of MARPOL 73/78 the IBC Code		able.			
15. Regulatory informat	tion				
US federal regulations	This produ	ict is a "Hazardou	us Chemical" as define	d by the OSHA Hazard	
			29 CFR 1910.1200.		
			U.S. EPA TSCA Invent	tory List.	
TSCA Section 12(b) Exp Not regulated.	ort Notification (4	0 CFR 707, Sub	pt D)		
US OSHA Specifically R	egulated Substan	ices (29 CFR 19 ⁴	10.1001-1050)		
Not listed.					
CERCLA Hazardous Sul Not listed.	bstance List (40 C	FR 302.4)			
Superfund Amendments ar	nd Reauthorization	n Act of 1986 (S	ARA)		
Hazard Categories		Hazard – No			
•	Delevied Llev	zard – No			
	Delayed Ha				
	Fire Hazard				
	Fire Hazard Pressure Ha	– Yes azard – No			
	Fire Hazard Pressure Ha Reactivity H	– Yes azard – No			
SARA 302 Extremely hazard	Fire Hazard Pressure Ha Reactivity H dous substance	– Yes azard – No lazard – No			
SARA 302 Extremely hazard Chemical name	Fire Hazard Pressure Ha Reactivity H	– Yes azard – No	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
•	Fire Hazard Pressure Ha Reactivity H dous substance	– Yes azard – No lazard – No Reportable		planning quantity,	
Chemical name Formaldehyde SARA 311/312 Hazardou chemical SARA 313 (TRI reporting	Fire Hazard Pressure Ha Reactivity H dous substance CAS number 50-00-0 us Yes	– Yes azard – No lazard – No Reportable quantity	planning quantity	planning quantity,	planning quantity,
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US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Formaldehyde (CAS 50-00-0).

International Inventories	,	
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	2-June-2014
Revision date	14-February-2019
Version #	04
HMIS [®] ratings	Health: 1 Flammability: 1 Physical hazard: 0
NFPA Ratings	
List of abbreviations	LD50: Lethal Dose, 50%
References	HSDB [®] - Hazardous Substances Data Bank
Disclaimer	The information in this (M)SDS was obtained from sources which we believe are reliable but cannot guarantee. Additionally, your use of this information is beyond our control and may be beyond our knowledge. Therefore, the information is provided without any representation or warranty express or implied.